

# INFORMATION RECORDING AND REPRODUCING DEVICE AND ITS METHOD

**Patent number:** JP11031376  
**Publication date:** 1999-02-02  
**Inventor:** TAKAYAMA YOSHIHISA  
**Applicant:** SONY CORP  
**Classification:**  
**- international:** G11B27/00; G06F3/06  
**- european:**  
**Application number:** JP19970183603 19970709  
**Priority number(s):**

## Abstract of JP11031376

**PROBLEM TO BE SOLVED:** To enhance an access speed by providing a nonvolatile memory in a cartridge, reading out access information for every partition of the memory and recording data in the sequence of the increasing of access frequencies of partitions.

**SOLUTION:** In the case of a tape cassette having the nonvolatile memory, the cassette has cells of partition information in which history information for every partition are stored. In this cell constitution, an access count D13 indicating a number in which a partition is accessed is included and in the case of duplicating a tape, data are recorded on a new tape in the order of the increasing of use frequencies by judging use frequencies for every partition from values indicated by these access counts D13. By performing like this way, the data are made to be recorded in the sequence of the increasing of numbers of access times of the partitions and then the access time of the data is enhanced.

D1	check sum	1	LINK INFORMATION
D2	set to ZERO	1	
D3	length	2	
D4	previous pointer	2	
D5	next pointer	2	
D6	set to all ZEROs	5	
D7	previous group written	4	PARTITION LOG ON TAPE PARTITION INFORMATION
D8	total group written	4	
D9	previous group read	4	
D10	total group read	4	
D11	total Rewritten Frames	4	
D12	total 3rd ECC Count	4	
D13	Access Count	4	
D14	Update Replace Count	4	
D15	Previous Rewritten Frames	2	
D16	Previous 3rd ECC Count	2	
D17	Load Count	4	
D18	Valid MAX Absolute Frame Count	4	
D19	FLAG	1	
D20	MAX Absolute Frame Count	2	

Data supplied from the esp@cenet database - Patent Abstracts of Japan